



























Summary & Highlights

Most of the indicators for week 41 are similar to their respective historical averages and are lower than what was seen this same time last season.

- Local Geographic Activity Designation (Click [here](#) for definitions) = SPORADIC
- Preliminary information from medical facility labs reported 255 tests run with 2 positive (.78%) result for week 40, this percentage positive is higher than the previous week and is similar to the historical baseline average.
- Compared to the previous week, ED visits for influenza-like-illness (ILI) increased slightly and respiratory symptoms were stable. Pediatric Urgent Care (PUC) visits for influenza-like-illness (ILI) were stable, while respiratory symptoms increased slightly. Figures for ED visits are at or below the historical baseline averages for this time of year.
- Sales of over-the-counter medications were mostly down. Compared to the previous week, decreases were seen in cough & cold, throat lozenge, electrolyte and thermometer sales; increases in chest rub and anti-fever sales.
- Nationally, Influenza A (H3N2), 2009 influenza A (H1N1), and influenza B viruses co-circulated at low levels in the United States during the summer months. During week 40 (October 3-9, 2010), influenza activity was low in the U.S.

Local Flu Activity Dashboard (All data are preliminary and may change as more reports are received.)

Indicators	Week Number Available	Current Week Value	% Change Chart from Last Week ¹ (-) (+)	# Weeks ² ▲ • ▼	General Trend Line Chart ⁷ (red = historical avg., grey = last year)
Medical Facility Lab Data	41	0.8% Pos.	 100%	1 ▲	
ILI Outpatient Data (Sentinel Medical Sites)	41	0.1% of All Visits	-27% 	1 ▼	
EMS Cold/Flu Symptom Runs	41	46 runs	 12.2%	2 ▲	
School Absences	41	6.9% Absent	 13.9%	1 ▲	
Columbus Google Flu Trends: Web Search Data ⁴	41	1,180 per 100,000 pop	 10.4%	6 ▲	
Hospital ED Data ³ :					
Complaint Defined as ILI	41	17.4% of All ED Visits	 3.3%	1 ▲	
Categorized as Respiratory	41	14.3% of All ED Visits	 0.9%	2 •	
Pediatric Urgent Care Data ³ :					
Complaint Defined as ILI	41	48.9% of All PUC Visits	 0.4%	2 •	
Categorized as Respiratory	41	45.6% of All PUC Visits	 2.5%	3 ▲	
Medication Data:					
OTC Cough & Cold Sales	41	6,126 Total Sales	-3.6%  -3.6%	1 ▼	
Thermometer	41	81 Total Sales	-10.0%  -10.0%	2 ▼	
Antiviral Prescriptions	39	0.4% of All Anti-Infectives	 44.5%	1 ▲	
Confirmed Influenza Associated Hospitalizations	41 (as of 10/12 12:00 PM)	0 Reported (3 Since wk. 35)	 0%	1 •	
Reportable Conditions⁶ (Cumulative Numbers as of Oct. 21, 2010, 12:00 PM)					
		2009		2010 YTD	
Influenza Clusters/Outbreaks Reported		1 suspected		0	
Influenza Associated Hospitalizations (IAH) Reported (see also Fig. 8)		523		12	
IAH Confirmed 2009 Influenza A (H1N1) ⁵		267		6	
Pediatric Influenza Associated Death Reported		2		0	

¹Interpret with caution. Indicators with small number subject to large weekly percentage fluctuations.

² Number of weeks "▲" = Increase (>2%), "▼" = Decrease (>2%), "•" = Stable (-2% to +2%)

³Franklin County, OH residents only (based on zipcode).

⁴Data Source: Google Flu Trends (<http://www.google.org/flutrends>), City = Columbus, OH (Experimental). See website for additional details.

⁵Confirmed cases only unless stated otherwise (Based on jurisdiction equal to Franklin County or City of Columbus and date created in ODRS).

⁶Information provided for references (Reportable condition is any influenza associated hospitalization, regardless of influenza type).

⁷Black line is current years data. Based on data availability, red line is historical average (excluding pandemic year), while grey line is last years data only.

CDC 122-Cities Mortality Reporting System: Pneumonia and Influenza (P&I) Mortality

In week 41 of 2010 (Oct. 10th, 2010 – Oct. 16th, 2010), 5.1% of all Columbus deaths were reported as due to pneumonia or influenza (Figure 1). Nationally, 6.5% of deaths reported were due to pneumonia or influenza in week 10. This national percentage is below the national epidemic threshold of 6.6%.

Influenza Morbidity and Influenza-Like Illness (ILI) Reports

The week 41 preliminary percentage of outpatient visits for ILI at sentinel medical practice reporting sites (<1%) is similar to the historical baseline average. Defined ILI symptom visits in EDs increased slightly compared to the previous week, while PUC visits were stable (Figures 2 & 3). In week 41, the ED percentage of visits for ILI defined symptoms is similar to the average seen in past seasons.

Nationally, during week 40 of 2010, 1.1% of patient visits reported through the US Outpatient Influenza-like Illness Surveillance Network (ILINet), were due to influenza-like illness (ILI). This percentage is below the previous week's value and is below the national baseline of 2.5%.

Laboratory Surveillance

During week 41 of 2010, reporting Franklin County sentinel medical facility laboratories tested 255 specimens, with 2 (0.78%) positive (Figure 4). The total number of tests done by local reporting labs from week 35 of 2010 through preliminary week 41 of 2010 is 1,426; with 7 (0.49%) positives (4 type A, 3 type B). Nationally in week 40, WHO and NREVSS laboratories reported 1,368 specimens tested for influenza viruses, 45 (3.3%) of which were positive. Influenza A (H3N2), 2009 influenza A (H1N1), and influenza B viruses co-circulated at low levels in the United States during the summer months. ODH lab reports results for those cases that are PCR positive for seasonal influenza. ODH lab positive results include (1) influenza A/H3 (total through 10/11/10).

ED and Pediatric Urgent Care Respiratory Visits

In the 41st week of 2010, the percentage of all ED visits categorized as *respiratory* (14.3%) was stable compared to the percentage seen the previous week and is similar to the historic baseline. The percentage of reporting Pediatric Urgent Care visits categorized as *respiratory* (45.6%) was slightly higher than the percentage seen in the previous week (Figure 5) and is lower than the percentage seen this same time last year.

Over-the-Counter (OTC) Medication Sales and Antiviral Prescriptions

In week 41 of 2010, OTC medications sale (Figure 6) volume trends were mostly lower. Compared to the previous week, decreases were seen in cough & cold, throat lozenge, electrolyte and thermometer sales; increases in chest rub and anti-fever sales. In week 39 (latest week available), the percentage of Franklin County pharmacy prescriptions for antivirals out of all anti-infective prescriptions, increased compared to the previous week and is similar to the historical baseline average (Figure 7). During week 39, the national antiviral prescription percentage also increased.

Additional Influenza Activity Web Links:

CDC National Seasonal Flu Surveillance Reports: <http://www.cdc.gov/flu/weekly/fluactivity.htm>

CDC International Influenza Activity Map: <http://www.cdc.gov/flu/international/activity.htm>

World Health Organization Situation Updates: <http://www.who.int/csr/disease/influenza/update/en/>

Columbus & Franklin County Influenza Monitoring Summary – Week 41 (10/10/2010-10/16/2010)

**Figure 1: Percentage of Deaths due to Pneumonia and Influenza
Columbus, Ohio 2010-11**



Figure 2: Percentage of Local, National, and HHS Region 5 ILI Outpatient visits and Percentage of Franklin County Resident BioSense Hospital ILI ED Visits, 2010-11

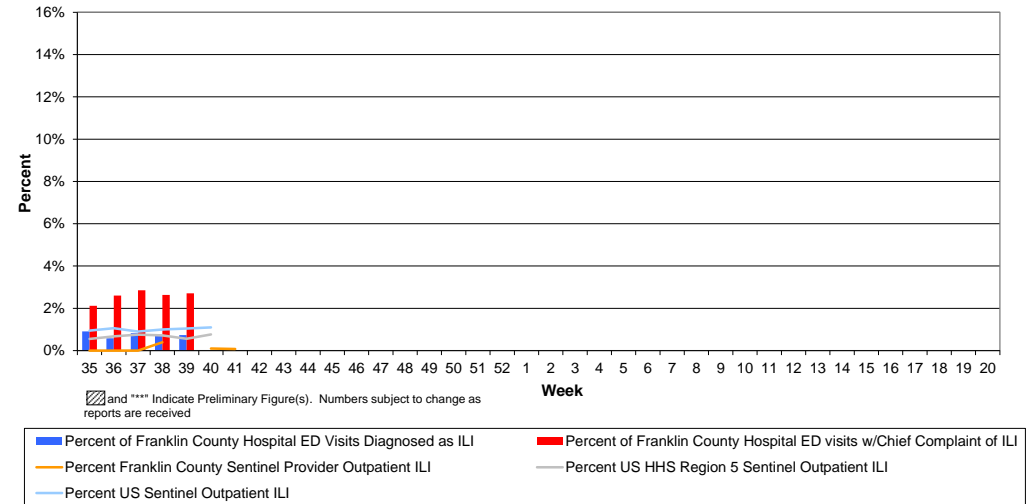


Figure 3: Franklin County Resident ILI Defined ED and Pediatric Urgent Care Visits, 2010-11, Franklin County, OH**

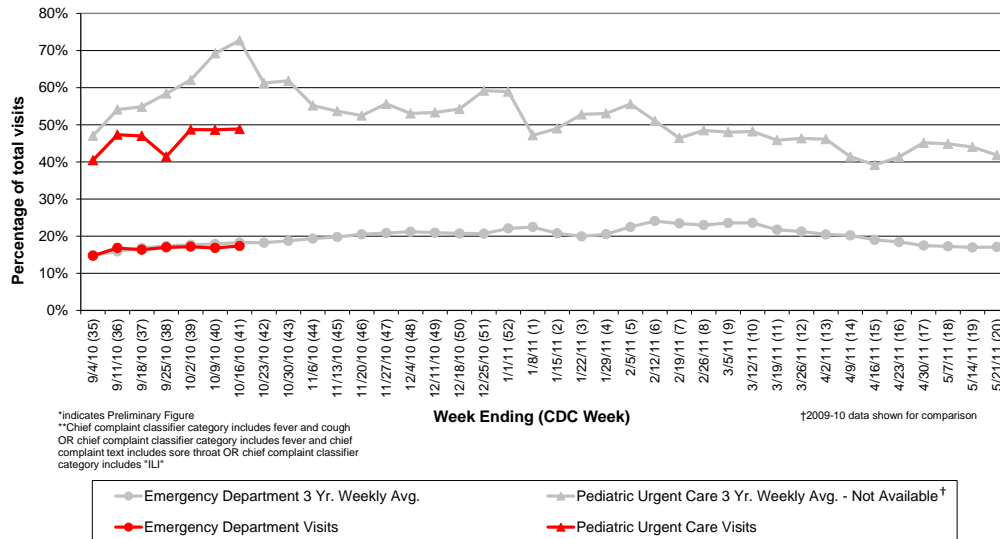
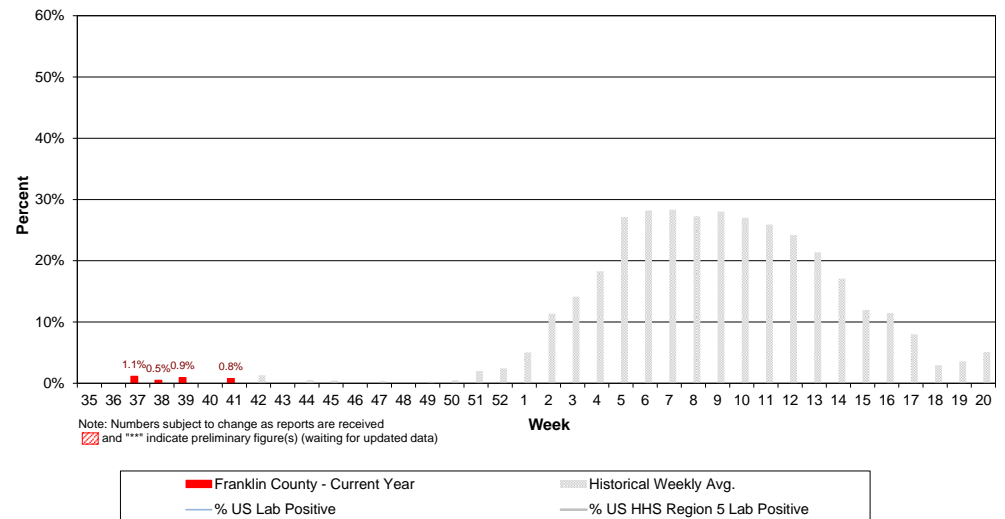


Figure 4: Percentage of Local Reporting and National Laboratory Positive Influenza Tests by Week, 2010-11



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Figure 5: Franklin County Resident Respiratory ED and Pediatric Urgent Care Visits, 2010-11, Franklin County, OH

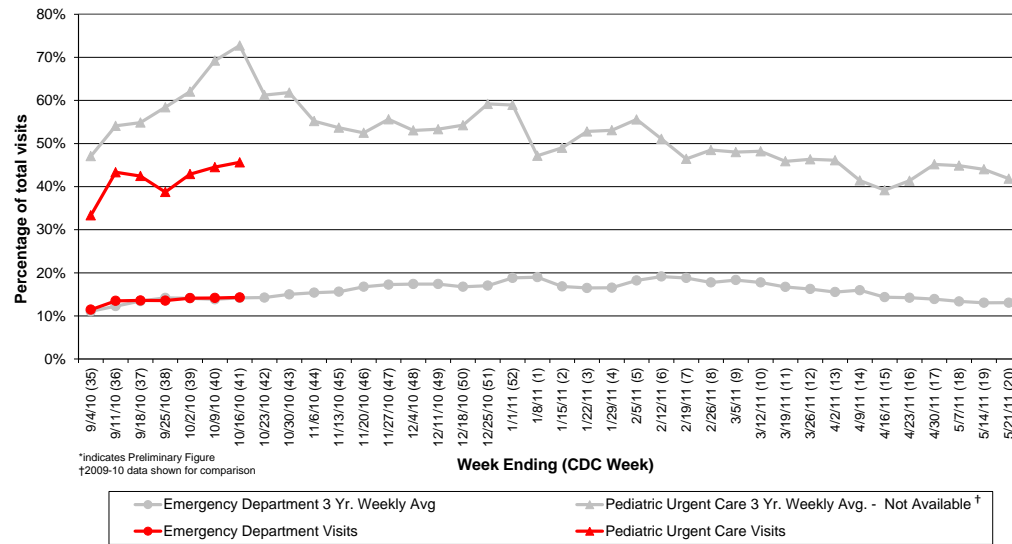


Figure 6: Selected Number of Over-the-Counter Medication Sales, 2010-11, Franklin County, OH

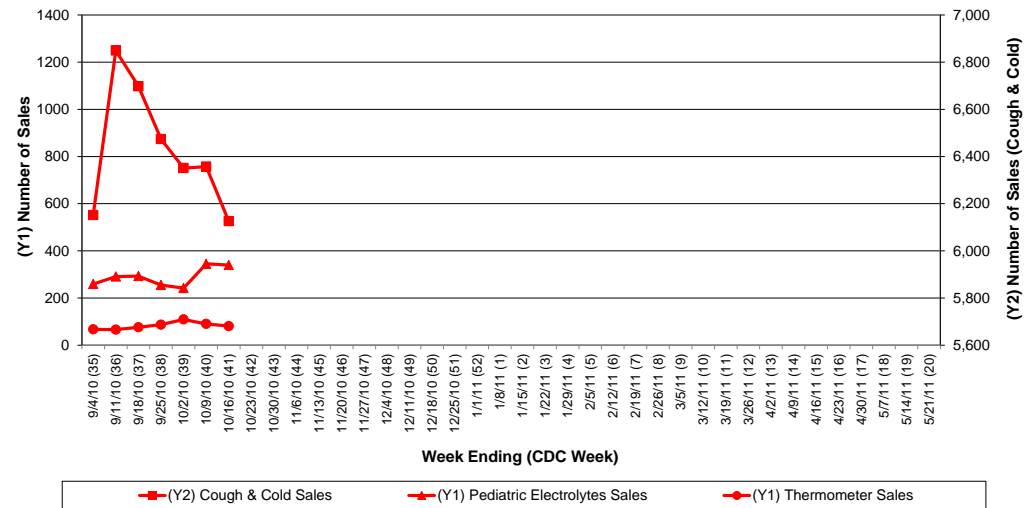


Figure 7: Percentage of Antiviral Prescriptions out of Total Number of Anti-Infective Prescriptions (Selected Pharmacies)

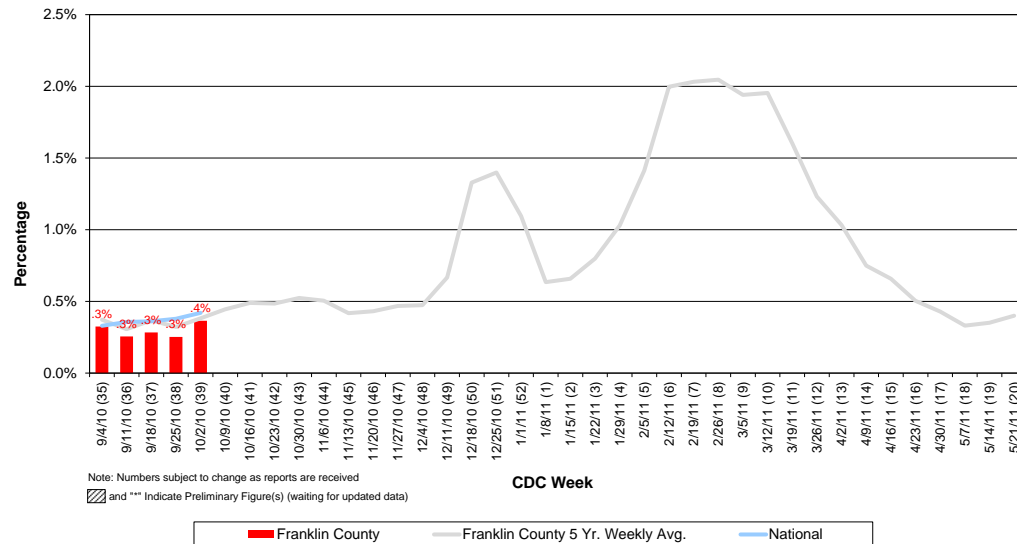


Figure 8: Franklin County Confirmed Influenza Associated Hospitalizations by Hospital Admission Week (As of 12:00 PM, 10/12/2010)

